

## LATCH-BASED PULSE GENERATOR

### Abstract of the Disclosure

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There is provided a pulse generator capable of generating a pulse with a reduced number of transistors that toggle in response to a clock signal, thereby reducing power consumption. The pulse generator includes a plurality of unit cells, wherein an  $n^{\text{th}}$  unit cell ( $n$  is a natural number more than 2) generates a pulse in response to a divided-by- $N$  clock signal ( $N$  is a natural number), a signal output from an  $(n-1)^{\text{th}}$  unit cell and a signal output from an  $(n+1)^{\text{th}}$  unit cell. The  $n^{\text{th}}$  unit cell is reset or generates the pulse whose width is equivalent to the width of the clock signal, according to the logic level of the signal output from the  $n+1^{\text{th}}$  unit cell.

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